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(54) Title: **SECURITY SYSTEM**

(57) Abstract: An electronic access control system comprising a lock cylinder and one or more user keys for use in operating the lock. Housed within the lock cylinder is a microprocessor and a memory. Each user key has an ID chip in which is embedded (at the time of manufacture) a unique ID number drawn from a pool of greater than 280,000,000,000,000 combinations, which number cannot be changed once it has been embedded in the key. A user key can be used to successfully open the lock if its unique ID number has been added to a list stored in the lock memory. The system further comprises an edit key which can be used to add or delete ID numbers of user keys from the list of valid keys stored in the lock memory.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"OPENING UP A NEW WORLD OF KEY-BASED SECURITY LOCKING" DESIGN ENGINEERING, MORGAN-GRAMPIAN LTD. LONDON, GB, 1 April 1993 (1993-04-01), page 23 XP000363906 ISSN: 0308-8448 figures 1,2 column 1, paragraphs 2-6 column 2, paragraph 2 column 3, paragraph 1 column 4, paragraph 4	1-18
X	US 5 508 691 A (LYNX ROGER ET AL) 16 April 1996 (1996-04-16) abstract; figures 2-6 column 3, line 53 -column 5, line 6 -/-	1-18

☒ Further documents are listed in the continuation of box C.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 704 352 A (HONDA MOTOR CO LTD) 3 April 1996 (1996-04-03) abstract; figures 1,2,12A-12D column 2, line 51 -column 3, line 31 -----	1-18
X	EP 0 695 675 A (MAZDA MOTOR ;NALDEC KK (JP)) 7 February 1996 (1996-02-07) abstract; figure 11 column 1, line 32 -column 6, line 44 -----	1-18

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/01767

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5508691	A	16-04-1996	NONE		
EP 0704352	A	03-04-1996	JP	3005175 B2	31-01-2000
			JP	8150903 A	11-06-1996
			AU	681539 B2	28-08-1997
			AU	3294995 A	02-05-1996
			DE	69508509 D1	29-04-1999
			DE	69508509 T2	12-08-1999
			EP	0704352 A1	03-04-1996
EP 0695675	A	07-02-1996	US	5621380 A	15-04-1997
			JP	3441177 B2	25-08-2003
			JP	8040206 A	13-02-1996
			DE	69512721 D1	18-11-1999
			DE	69512721 T2	02-03-2000
			EP	0695675 A1	07-02-1996
			US	6008722 A	28-12-1999

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